



IISc Alumni

Newsletter of IISc Alumni Association

Volume 6 Issue 2 June 2013

From the General Secretary's Desk

It was in Aug 2009 that I was introduced to IIScAA as a member of the Executive committee. Within a short span of time, I was elevated to the post of Joint Secretary. It was a period where I learnt the functioning of IIScAA. During this period, among others, we introduced IIScAA friendly cricket match which is gaining momentum for last four years and now metamorphosed to IIScAA sports meet by incorporating TT and Badminton. In the year 2011, where we witnessed the first ever election to become a member of IIScAA office Bearers, I was elected as the General Secretary. In the last two years, we had a vibrant team headed by our President Sri Babu Sathian. While continuing our trend on the ongoing activities like Science Forum lectures, Breakfast meet, knowledge exchange programme etc., we introduced more programmes for the benefit of students community of IISc and collaborative programme like music with IIT club.

The activities of IIScAA was shared among all with the regular publication of our Newsletters. Other major activities we initiated during the last two years include Yoga for IIScAA family members, Aadhaar card registration exclusively for IIScAA members and family, interaction with Fresher UG students, visit to Chalakare campus of IISc etc. The distinguished alumni award and honouring senior Guru's of IISc mark our reputation among the IISc community. During this period, we have also made an attempt in enrolling new students to alumni association at the beginning of their career at IISc at a subsidized membership fee. Another major highlight of IIScAA during the last two years is the participation in IIScAANA global conference in Chicago in July 2013. Yet another initiative to worth mention here is the alumni reunion meet of Aerospace department of 1972-74 batch. Such type of programme will be a regular event in the days to come.

IIScAA Activities

Social Network

Alumni Network Meet

An Alumni Social Network Meet over the Breakfast was organised by IIScAA on Sunday, April 7, 2013 at 9.00 a.m. at the Choksi Hall, IISc. About 90 alumni including spouse and children participated in the event.

The event started with a sumptuous breakfast. This was followed by sharing memorable experiences by few alumni. The President IIScAA informed the members about the IIScAANA global meet scheduled to be held in July 2013 in USA. He requested members to participate in this event. The General Secretary informed the members that the Annual General Body Meeting (AGBM) of IIScAA is planned during August 2013. The election for the office bearers of IIScAA for the period 2013-15 will be part of this year's AGBM. The General Secretary requested members to participate in this event. The meet was ended with one round of Tambola hosted by our Vice-President and President Elect Shri. H. R. Parthasarathy.

Aadhaar Card Registration Camp

The Aadhaar Card Registration Facility, exclusively for IISc alumni, was organised by IIScAA in association with Tata Memorial Club (TMC), IISc, on April 30 and May 1, 2013, at the TMC premises. About 150 alumni including spouse and children availed this facility. Many alumni appreciated this gesture of IIScAA and have requested to arrange this facility in future also.

New format for Alumni ID Card

A new format for IISc alumni identity card (ID) has been framed incorporating relevant information such as degree, year of study in IISc, department, blood group, permanent address with contact telephone number and email address etc., besides the ID number and photograph. Members are requested to contact the alumni office if they would like to change to the new format of their old ID card.



L N Satapathy

President's Desk

Dear Colleagues,

It's time that new team of Office Bearers is elected to take over from the present team. As you are aware we will be having the Annual General Body Meeting on August 24, 2013 to select the new team of Office Bearers. My team of Office Bearers joins me in thanking the Executive Committee Members for their wonderful support and valuable guidance for the last 2 years.

I thank the Advisors – Dr. V. K. Aatre, Prof. M. L. Munjal and Prof. E.S. Dwarakadasa for their good counsel and wisdom to keep up the good tradition.

Your Office Bearers have put a lot of effort to ensure that the spirit of Alumni Association as well as the visibility continuously grows. For the last 2 years we had many programmes and the participation of the Alumni Community is quite encouraging. During these periods we are able to have closer interaction with the Student Community.

The Authorities of the Indian Institute of Science were so helpful and I am very thankful to our Patrons, Prof. P. Balaram as well as Prof. N. Balakrishnan for their encouragement and wholehearted support in all our activities.

It is heartening to note that the increase in membership and we are able to bring various chapters of IISc. Alumni Association North America (IIScAANA) closer to IISc. Alumni Association (IIScAA). With the participation of IIScAA the recently concluded Global Conference has been very successful in meeting its objective.

I am very glad to note that the Office Bearers have put a hard work in unison. Of course, there is always a scope for augmenting our activities in reaching out to the present and future alumni (students). I personally enjoyed very much the vivid discussion amongst our Executive Committee Members, Advisors and many Faculty of IISc in conducting various programmes throughout the year. I am, sure, you will be having a very enlightened team to carry forward with more vigour and enthusiasm. I wish to thank one and all and wish the incoming team an exciting period.

V Babu Sathian

Editorial

Dear readers,

At the outset, as the Joint secretary of IIScAA, I remain grateful to the Alumni members for giving me an opportunity to serve the association in various activities. We look forward to enhancing interaction with members. Besides the existing programmes, plenty of work needs to be done. We anticipate ideas towards launching new programmes from the members, faculty and student community and wish all of them to participate and contribute to the growth of the association.

The Centre for Product Design and Manufacturing (CPDM) is the only setup in India actively pursuing in Design Theory and Methodology, as envisaged by the Chairman, CPDM Prof. Anindya Deb. The Campus Recruitment during 2011-12 detailed by Prof. N.C. Shivaprakash, Associate Chairman, CSIC, is significant and should be placed on record that 90% of our students got placement in multi-national companies. The IISc admission is remarkable, career-preparing, life-shaping opportunities as cited by Prof. B.N. Raghunandan, Dean, Faculty of Engineering.

Please feel free to express your views about our newsletter by E-mail: iiscaanlg@yahoo.com

H K Anasuya Devi

IIScAA Science Forum – Popular Lecture Series

The Thirty Fifth Lecture (March 23, 2013)

Topic : "Fundamental Rights and Duties"
 Speaker : Shri. Soli J. Sorabjee, Former Attorney General for India
 Moderator : Justice R. V. Raveendran



The Thirty Sixth Lecture (April 20, 2013)

Topic : "Form and Function of Proteins. Historical Background and the Indian Effort"
 Speaker : Prof. M. Vijayan, INSA Albert Einstein Professor, Molecular Biophysics Unit, Indian Institute of Science, Bangalore
 Moderator : Prof. H.S. Savithri



The Thirty Seventh Lecture (May 25, 2013)

Topic : "The Secret machine that drives the cumulus cloud"
 Speaker : Prof. Roddam Narasimha, DST Year-of-Science Professor, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore
 Moderator : Dr. Kota Harinarayana



Link to videos :

<http://mmcr.iisc.ernet.in:8008/cgi-bin/nwayfiles.py>, In the Folder Name, please select IIScAA and click on Search.

You can view the videos of the Lectures by clicking on Flash, Quicktime, VLC.

H R Parthasarathy

Awards and Honours

Centre for Ecological Sciences

Prof. R. Gadagkar - Chairman, Advisory Board, CSIR, India 2013-2016.

New appointments: Dr. Sumanta Bagchi, Assistant Professor.

IISc Alumni

Wg. Cdr. H.R. Parthasarathy has been honoured the coveted IETE-B R Batra Memorial award (2013) in recognition for rendering selfless service through the association with IETE Bangalore Centre in various capacities culminating as Chairman of the Centre and promoting the cause & objectives of the institution for more than two decades.

Prof. M.L. Munjal 'Pt. Jawaharlal Nehru National Award in Engineering and Technology for the year 2010' in recognition of outstanding contributions in the field of Noise Pollution Control, 2013.

Prof. S. Ranganathan, The Electron Microscope Society of India has conferred 2013 Lifetime Achievement Award on distinguished alumnus BE 1963 in recognition of his seminal contributions to field-ion microscopy and electron microscopy. His role in the growth of electron microscopy centres at BHU and IISc was also recognized.

DESIGN: A VIBRANT ACTIVITY IN IISc

The Centre for Product Design and Manufacturing (CPDM) was established to pursue excellence in teaching, research and industry interaction in the area of Design. The two-year holistic MDes program, introduced in 1996, is the flagship program of the department. CPDM is perhaps the only academic setup in India pursuing an active research program in Design spanning the broad areas of Design Theory and Methodology, Human Factors in Design, Design Semantics, Product Lifecycle Management, Automotive Design, CAD/CAM/CAE in Product Design, and, Impact Safety Design through Simulation and Testing. The department supports both MSc(Engg) and PhD programs for research in Design.

Design is by nature interdisciplinary. This is reflected in the diversity of courses that are offered in CPDM and the varied expertise of its faculty members. An impressive list of product prototypes has been completed by the MDes students of CPDM some of which have serious commercial potential. Many of these working prototypes such as a single-use syringe, foldable bicycle, sugarcane juice extractor, mobile food vending cart, deployable stairs for railway coaches, tea leaf plucking machine, lightweight spaceframe-based

electric car, etc., have been patented. There has been direct contributions of CPDM to products in use such as a water purifier made by Eureka Forbes, an automatic height-adjustable deployable ramp for an ambulance of Mobility India, stands for easy parking of bicycles in the campus, and a zero-emission aluminium-intensive electric mailvan for delivery of mails within IISc. Currently, a number of biomedical assistive devices are being developed under a DBT (Department of Biotechnology) initiative in collaboration with prominent health professionals of Bangalore. Products conceived/ designed in CPDM generate considerable excitement among the visitors during the IISc Open Day and "Ripples", the Annual Design Exhibition of CPDM.

CPDM has been engaged in research projects with a number of well-known government organizations and private industry, notably, DRDO, DST, ADA, BRNS, ISRO, General Motors, Tata Motors, Boeing, etc. The faculty of CPDM has contributed richly to further design by developing software tools for concept design, sustainable product design, product data management and ergonomic analysis, as well as novel impact testing devices, eco-friendly biocomposites and simulation methodologies for vehicle safety design.



A water purifier designed by MDes students for Eureka Forbes



Bicycle stand designed by CPDM for CiSTUP, IISc



Mr. Ratan Tata in the electric mailvan developed in CPDM



Projects on display in IISc Open Day (March 2, 2013)

Campus Recruitment – 2011-2012



The placement section at Centre for Scientific and Industrial Consultancy is the link between our students and employers. The employers come from a wide spectrum of industries and government R&D bodies. During the academic year 2011-12, 365 students have registered for placement, out of whom 300 participated and 269 got placed. The number of industries who come for placement interviews was 70 out of which 15 of them had come for the first time. Our students got placed in multi-national companies including IBM Research, Microsoft Research, Texas Instruments, Intel Technologies, Airbus Engineering Centre, Yahoo's R&D, Goldman Sachs, General Motors, General Electric and many others. Besides these, many Indian companies such as Ashok Leyland, TVS Motors,

Mahindra and Mahindra, Bharat Electronics, Tata Motors, Tata Consultancy Services and others have offered placement to our students. In addition to the private companies, Public sector companies, Defense sector DRDO, Power sector CPRI and other Government organizations have participated in the placement process.

The division-wise break up are as follows :

Mechanical Sciences	182	267 – PG students
Electrical Sciences	73	02 - PhD students
Other divisions	14	269

N C Shivaprakash
Associate Chairman, CSIC

IISc Admissions

“We need to note that the admission to research in Engineering was limited until around 2008 and then onwards the number has gone up. It takes about five years to see the results of this enhancement. From what I have seen in the last two quarters, the number of Ph D awards in engineering is certainly on the increase. While we like to reduce the number of M Sc (Engg) correspondingly, many departments feel that we are indeed getting some of the bright B E graduates to this programme and therefore the numbers have remained unchanged.

The total number of students in the Institute is almost at the saturation level now – nearing 3400 considering the material and human resources we have, and we may not be able to enhance the admissions in near future. But the total number of Ph Ds is likely to stabilize around 250 in an year or so. The ME programme continues to be the the flagship program of Engineering with a continuously updated course structure and the number of awards hovers between 350 to 400 per year.”

B.N. Raghunandan
Dean: Faculty of Engineering

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